

Claims

1. An axisymmetrical multilayer object forming a wall of thickness E, said object being composed of a first resin forming the structure of the object and representing at least 80% of the volume of the object, and of a second resin forming at least two fine functional layers, said functional layers being imprisoned separately in the first resin,
5 the multilayer structure being characterized in that
 - d. the functional layers are distributed in separate parts of the object
 - e. the functional layers form bodies of revolution centered on the axis of symmetry of the object
 - f. the two functional layers are placed partially one on top of the other in a direction perpendicular to said wall.
- 10 2. The object as claimed in claim 1, characterized in that the superposition distance is at least equal to the thickness E of the object.
- 15 3. The multilayer object as claimed in claim 1 or 2, characterized in that the functional layers themselves form a multilayer structure comprising a layer of barrier resin imprisoned between two layers of adhesive resin.
- 20 4. The object as claimed in any one of the preceding claims, characterized in that the first resin represents at least 85% of the volume of the object.
- 25 30 5. A multilayer object obtained by compression molding of a multilayer dose, said multilayer dose in a radial stacking of a plurality of layers, containing at least 2 fine functional layers imprisoned between layers composed of a first resin, the layers constituted by the first resin
35 40

representing at least 80% of the volume of the dose, the distance of the first layer to the axis of symmetry being less than or equal to half the distance of the second layer to the axis of symmetry.

- 5
6. A multilayer dose with an axis of symmetry for the realization of multilayer objects by compression molding, the multilayer structure of which
10 consists in a radial stacking of a plurality of layers, said multilayer structure containing at least 2 fine functional layers imprisoned between layers composed of a first resin, the multilayer structure being characterized in that
15 a. the layers constituted by the first resin represent at least 80% of the volume of the dose
b. the distance of the first layer to the axis of symmetry is less than or equal to half the
20 distance of the second layer to the axis of symmetry.
7. The multilayer dose as claimed in claim 6, characterized in that the functional layers
25 themselves form a multilayer structure comprising a layer of barrier resin imprisoned between two layers of adhesive resin.
8. The multilayer dose as claimed in either of claims
30 6 and 7 comprising at least three functional layers, characterized in that the ratio of the radial distances between two neighboring layers is less than or equal to 0.5.